

**Figure 1**

Figure 1 consists of two panels, A and B, showing histograms of the number of non-zero elements in the sparse matrices  $\tilde{A}$  and  $\tilde{B}$ , respectively.

Panel A shows the histogram for  $\tilde{A}$ . The x-axis is labeled "Number of non-zero elements" and ranges from 0 to 100. The y-axis is labeled "Frequency" and ranges from 0 to 10. The distribution is highly skewed towards zero, with a peak frequency of approximately 9 at 0 non-zero elements. There are very few non-zero elements in  $\tilde{A}$ .

Panel B shows the histogram for  $\tilde{B}$ . The x-axis is labeled "Number of non-zero elements" and ranges from 0 to 100. The y-axis is labeled "Frequency" and ranges from 0 to 10. The distribution is also highly skewed towards zero, with a peak frequency of approximately 8 at 0 non-zero elements. There are more non-zero elements in  $\tilde{B}$  than in  $\tilde{A}$ , but still most are zero.

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